

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D. C.

APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE RADIO STATIONS IN THE  
WAR EMERGENCY RADIO SERVICE <sup>1</sup>

Class of Station \_\_\_\_\_

(Space above this line for use of Federal Communications Commission.)

Submit one copy to the Federal Communications Commission, Washington, D. C. If application is for station to be located in Alaska, submit in duplicate to Inspector in Charge, Federal Building, Seattle, Washington. If for new license for Civilian Defense Radio Stations, also submit form 455-A, (Certification of Radio Aide).

TO THE FEDERAL COMMUNICATIONS COMMISSION:

1. Name of applicant or station licensee: <sup>2</sup> City of Milwaukee, Wisconsin.
2. Post-Office address: Street and Number 935 N. 8th. St.  
City Milwaukee 3 State Wisconsin
3. If application is for modification of existing station license, specify call letters WMFI and file number T4-RCL-301 of existing license.
4. If applicant is a State Guard organization, submit copy of Act or Order creating such organization.

<sup>1</sup>If any information or documents which are already on file with the Commission are required to be filed with the application, proper reference thereto should be made herein, together with a statement that there has been no change therein since date of filing thereof.

<sup>2</sup>Section 15.61 of the Rules provides that "Authorizations for civilian defense stations will be issued only to instrumentalities of local government such as cities, towns, counties, etc.

Section 15.81 of the Rules provides that "Authorizations for state guard stations will be issued only to the official state guard or comparable organizations of a state, territory, possession, or the District of Columbia."

5. (a) List all transmitters proposed to be operated under the requested license. If application is for modification of license for additional transmitters, list all transmitters proposed to be used under the modified license. (Retain the unit numbers now assigned to the transmitters now specified in the outstanding license.)

UNIT No.	MANUFACTURER	TYPE OR MODEL	RATED POWER INPUT (FINAL)	TYPE OF EMISSION PROPOSED	INDICATE WHETHER FIXED, PORTABLE OR PORTABLE-MOBILE
1.	Composite	MRAC3	25 watts	A-3	Fixed
2.	"	MRAC7	"	"	"
3.	"	MRAC4	"	"	"
4.	"	MRAC8	"	"	"
5.	"	MRAC1	"	"	"
6.	"	MRAC1	"	"	"
7.	"	MRAC8	"	"	"
8.	"	MRAC1	"	"	"
9.	"	MRAC5	"	"	"
10.	"	MRAC5	"	"	"
11.	"	MRAC1	"	"	"
12.	"	MRAC6	"	"	"
13.	"	MRAC1	"	"	"
14.	"	MRAC1	"	"	"
15.	"	MRAC1	"	"	"
16.	"	MRAC1	"	"	"
17.	"	MRAC5	"	"	"
18.	"	MRAC1	"	"	"
19.	"	MRAC1	"	"	"
20.	"	MRAC1	"	"	"
21.	"	MRAC5	"	"	"
22.	"	MRAC1	"	"	"
23.	"	MRAC5	"	"	"
24.	"	MRAC2	8 watts	"	Portable-mobile
25.	"	MRAC15	18 "	"	"
26.	"	MRAC14	8 "	"	"
27.	"	MRAC9	12 "	"	"
28.	"	MRAC10	16 "	"	"
29.	"	MRAC18	12 "	"	"
30.	"	MRAC16	19 "	"	"
31.	"	MRAC12	18 "	"	"
32.	"	MRAC11	18 "	"	"
33.	"	MRAC13	18 "	"	"
34.	"	MRAC17	18 "	"	"
35.	"	MRAC17	18 "	"	"
36.	"	MRAC9	12 "	"	"
37.	"	MRAC14	8 "	"	"
38.	"	MRAC11	18 "	"	"
39.	"	MRAC18	12 "	"	"
40.	"	MRAC9	12 "	"	"

(If additional space is needed, attach a sheet arranged in this manner. Unit numbers must be consecutive, starting with unit number 41.) If license is granted, these unit numbers must be permanently affixed to each transmitter.

(b) Applicant hereby affirms that it owns or has possession of the transmitters listed under Item 5(a).

## 2A.

UNIT NO.	MANUFACTURER	TYPE OR MODEL	RATED POWER INPUT	TYPE OF EMISSION	FIXED, PORTABLE OR PORTABLE-MOBILE
41	Composite	MRAC18	12 watts	A-3	Portable-mobile
42	"	MRAC18	12 "	"	"
43	"	MRAC13	18 watts	"	"
44	"	MRAC19	0.5 "	"	Portable
45	"	MRAC 19	0.5 "	"	"
46	"	MRAC19	0.5 "	"	"
47	"	MRAC19	0.5 "	"	"
48	"	MRAC19	0.5 "	"	"
49	Abbott	DK-2	6 "	"	"
50	Composite	MRAC21	18 "	"	"
51	"	MRAC20	18 "	"	"
52	"	MRAC20	18 "	"	"
53	"	MRAC9	12 "	"	"

6. Furnish the following information for EACH TYPE of transmitter listed in Item 5(a).  
(Attach additional sheets if required.)

See attached sheets 3A and 3B.

(a) MANUFACTURER \_\_\_\_\_ (b) UNIT NUMBERS \_\_\_\_\_  
(if composite, so state) (from Item 5(a), column 1)

(c) Tube complement:

	Number and type of tubes	Normal plate current per tube	Plate voltage
Oscillator stage			
Intermediate stages			
Final radio stage			
Modulator			

(d) Describe type of oscillator circuit \_\_\_\_\_

(e) Describe type of power supply for last radio stage \_\_\_\_\_

Rating: Current \_\_\_\_\_ Voltage \_\_\_\_\_

(f) State type or class of modulation. \_\_\_\_\_

1. Which radio stage is to be modulated? \_\_\_\_\_

2. State maximum percentage of modulation \_\_\_\_\_

3. If frequency modulated state total frequency swing \_\_\_\_\_

(g) Indicate the radio frequency range of the transmitter \_\_\_\_\_

(h) Within how many cycles or within what percentage is this apparatus designed or guaranteed by the manufacturer to hold the operating frequency? \_\_\_\_\_

(i) Is this transmitter crystal controlled? \_\_\_\_\_ If so, state type, number and name of manufacturer of frequency control apparatus \_\_\_\_\_

7. (a) What provision will be made for measurement and periodic checking of the station frequency? Frequencies of all units will be checked by Unit 1 or Unit 3 at beginning of all tests.

(b) What type of frequency measurement or calibration apparatus will be used?

Lampkin type 105 frequency meters.

(c) Within how many cycles or within what percentage will this apparatus measure the frequency? 0.005%

(d) What methods will be used to check the calibration of this instrument?

Beat against WFDK (2450 kc), 46th harmonic falls on 112,700 kc.

Also checked against WWV.

(e) How often will this instrument be checked? Regular routine of Police Dept.



8. (a) If any stations are proposed to be operated permanently at fixed locations furnish the following information for each location:

STREET AND NUMBER	CITY AND STATE	MAXIMUM HEIGHT OF ANTENNA ABOVE GROUND <sup>1</sup>
Unit 1 935 N. 8th. St.	Milwaukee, Wis.	120 ft.
Unit 2 1003 S. 6th. St.	Milwaukee, Wis.	50 ft.
Unit 3 4715 W. Vliet St.	Milwaukee, Wis.	45 ft.
Unit 4 2156 S. Allis St.	Milwaukee, Wis.	45 ft.
Unit 5 2804 N. 3rd St.	Milwaukee, Wis.	40 ft.
Unit 6 3220 W. Burnham St.	Milwaukee, Wis.	48 ft.
Unit 7 3172 N. 36 St.	Milwaukee, Wis.	55 ft.
Unit 8 7302 W. National Ave.	West Allis, Wis.	65 ft.
Unit 9 1501 Underwood Ave.	Wauwatosa, Wis.	51 ft.
Unit 10 3830 N. Murray Ave.	Shorewood, Wis.	50 ft.
Unit 11 2005 - 10th. Ave.	South Milwaukee, Wis.	52 ft.
Unit 12 3617 E. Layton Ave.	Cudahy, Wis.	53 ft.
Unit 13 801 E. Lexington Blvd.	Whitefish Bay, Wis.	50 ft.
Unit 14 4755 W. Beloit Rd.	West Milwaukee, Wis.	32 ft.
Unit 15 6609 Schoolway	Greendale, Wis.	50 ft.
Unit 16 822 W. Kilbourn Ave.	Milwaukee, Wis.	130 ft.
Unit 17 7030 N. Port Washington Rd.	Town of Milw. Wis.	30 ft.
Unit 18 605 E. Green Tree Rd.	Fox Point, Wis.	40 ft.
Unit 19 Calumet Rd. & Pheasant Lane	River Hills, Wis.	40 ft.
Unit 20 4160 N. Richards St.	Milwaukee, Wis.	55 ft.
Unit 21 200 E. Wells St.	Milwaukee, Wis.	140 ft.
Unit 22 1747 N. 12th. St.	Milwaukee, Wis.	92 ft.
Unit 23 606 W. Wisconsin Ave.	Milwaukee, Wis.	250 ft.

- (b) Will the antenna structure and support be painted and lighted to conform to the specifications of the Civil Aeronautics Administration? NO.

If the answer is "NO" state the reasons which would indicate the lack of necessity for painting and lighting. (Such as low height, height of surrounding buildings and structures, absence of aircraft operation, etc.) No antenna will project more

than four feet above the top of any building chimney or flagpole.

- (c) If authority is requested to operate any station by remote control, supply the following information for each station:

LOCATION OF STATION:

Number	Street	City	State
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LOCATION OF REMOTE CONTROL POINT:

Number	Street	City	State
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Can the transmitter be placed in an inoperative condition from this control point?

By what means will the transmitter be rendered inaccessible to unauthorized persons?

Describe monitoring equipment installed at the remote control point to determine that the transmitter is at all times operating in accordance with the terms of the authorization.

<sup>1</sup>If greater than 100' in height above the ground, or located within 5 miles of an airport or established airway, submit FCC Form 401-A (supplemental antenna data) in triplicate for each location.

[illegible]

Int. stages	Type and No.
1-707	3-705

Final stage	Type and No.
1-	616
1-	815
1-	815
1-	7B5

[illegible][illegible]

Current	150MA	150, 150,	150	200MA	150MA	100MA	135MA	125MA
Voltage	400	400, 300	350	350	300	300	350	325

[illegible][illegible]





9. (a) Submit a general map of the area of proposed operations showing the location of all stations which are to be operated at fixed locations. If portable stations are requested show the usual area of operation of each unit. Indicate on the map the general details of the proposed plan of communications, showing the location of all fixed stations. Fixed station map attached. Portable and portable-mobile units will operate anywhere in Milwaukee County.
- (b) Submit all supplementary statements as required by Part 15 of the Rules and Regulations. (See Section 15.62 for Civilian Defense stations; Section 15.82 for State Guard stations.) Agreements and other supplementary statements filed with original application dated December 8, 1943.
10. Applicant waives any claim to the use of any particular frequency or of the ether as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests a license to operate radio stations in accordance with the foregoing constructional details in accordance with the Rules Governing Stations in the War Emergency Radio Service.

Dated this 9th day of May, 1945.

City of Milwaukee, Wisconsin.  
Applicant (Must correspond with Item 1)

By \_\_\_\_\_  
(official capacity)  
Chief of Police.

STATE OF Wisconsin )  
COUNTY OF Milwaukee ) ss:

Joseph Kluchesky, being first duly (sworn upon his oath, affirmed according to law, deposes and says that he is the Chief of Police of the City of Milwaukee, the above-named applicant, and that the facts stated in this foregoing application and all exhibits (No. 1) attached thereto are true of his own knowledge, except as to such statements as are therein stated on information and belief, and as to such statements he believes them to be true.

\_\_\_\_\_  
Signature of Affiant. Must be sworn to by head of organization filing.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

(SEAL)

\_\_\_\_\_  
Notary Public

(Notary Public's seal must be affixed where law of jurisdiction requires; otherwise state that law does not require seal.)

My commission expires \_\_\_\_\_

I hereby certify that the foregoing application has been prepared under my supervision and that all of the details and statements contained therein are true to the best of my knowledge.

Herbert F. Wasing  
Signature of Radio Aide or Communications Officer



# WISCONSIN

## MAP OF MILWAUKEE COUNTY

### WAR EMERGENCY RADIO SERVICE FIXED STATION UNIT LOCATIONS

#### UNIT NO.

- 1-POLICE RADIO DISPATCHER OFFICE  
935 NORTH 8TH STREET
- 2-2ND DISTRICT POLICE STATION  
1003 SOUTH 8TH STREET
- 3-POLICE RADIO STATION  
4715 WEST VLIET STREET
- 4-4TH DISTRICT POLICE STATION  
2156 SOUTH ALLIS STREET
- 5-5TH DISTRICT POLICE STATION  
2804 NORTH 3RD STREET
- 6-6TH DISTRICT POLICE STATION  
3220 WEST BURNHAM STREET
- 7-7TH DISTRICT POLICE STATION  
3172 NORTH 36TH STREET
- 8-WEST ALLIS POLICE STATION  
7302 WEST NATIONAL AVE
- 9-WAUWATOSA POLICE STATION  
1501 UNDERWOOD AVE
- 10-SHOREWOOD POLICE STATION  
3930 NORTH MURRAY AVE
- 11-SOUTH MILW POLICE STATION  
2005-10TH AVE
- 12-CUDAHY POLICE STATION  
3617 EAST LAYTON AVE
- 13-WHITEFISH BAY POLICE STATION  
801 EAST LEXINGTON BLVD
- 14-WEST MILW. POLICE STATION  
4755 WEST BELDIT RD.
- 15-GREENDALE POLICE STATION  
6609 SCHOOLWAY
- 16-WIS SUB-AREA CONTROL CENTER  
822 WEST KILBOURN AVE
- 17-TOWN OF MILW POLICE STATION  
7030 NORTH PORT WASHINGTON RD
- 18-FOX POINT POLICE STATION  
605 EAST GREEN TREE RD
- 19-RIVER HILLS POLICE STATION  
CALUMET RD. & PHEASANT LANE
- 20-WIS NATIONAL GUARD ARMORY  
4180 NORTH RICHARDS STREET
- 21-FIRE ALARM OFFICE  
200 EAST WELLS STREET
- 22-FIRE & POLICE ALARM SYSTEM WAREHOUSE  
1747 NORTH 12TH STREET
- 23-WISCONSIN TOWER  
606 WEST WISCONSIN AVE

NORMAL COMMUNICATION ROUTE TO  
CONTROL CENTER & POLICE RADIO  
DISPATCHER  
-----  
ALTERNATE COMMUNICATION ROUTE  
TO POLICE RADIO STATION

APPROVED  
FOR THE LICENSEE *Joseph A. Schubert*  
RADIO AIDE

MILWAUKEE POLICE DEPT.  
RADIO BUREAU

DATE APRIL 4th 1945 DR BY: MB

COUNTY

WAUKESHA

RACINE

COUNTY